Notice of Allowability	Application No.	Applicant(s)
	09/885,163	TAKAHASHI ET AL.
	Examiner	Art Unit
	Pedro J. Cuevas	2834
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR 1. This communication is responsive to after final amer 2. The allowed claim(s) is/are 1-6, 13, and 15. 3. The drawings filed on are accepted by the Ex Acknowledgment is made of a claim for foreign priori a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(at 2.1) Acknowledgment is made of a claim for domestic priority to the priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is made of a claim for domestic priority document is document in the priority document is document in the priority document in the priority document is document in the priority document in the priori	DL-85) or other appropriate commusint RIGHTS. This application is standard and MPEP 1308. Independent filled on April 28, 2003. Independent and the standard	this application. If not included nication will be mailed in due course. THIS ubject to withdrawal from issue at the initiative (f). No in this national stage application from the
 (a) ☐ The translation of the foreign language provision 6. ☐ Acknowledgment is made of a claim for domestic prior 	onal application has been received.	
Applicant has THREE MONTHS FROM THE "MAILING DAT below. Failure to timely comply will result in ABANDONMEN 7. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which gives	submitted Nate the state of Even	E-MONTH PERIOD IS NOT EXTENDABLE
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draff 1) hereto or 2) to Paper No. (b) including changes required by the proposed draw (c) including changes required by the attached Exam 	sperson's Patent Drawing Review ving correction filed, which niner's Amendment / Comment or i	(PTO-948) attached has been approved by the Examiner. In the Office action of Paper No
Identifying indicia such as the application number (see 37 Cleach sheet. 9. DEPOSIT OF and/or INFORMATION about the dattached Examiner's comment regarding REOUREMENT 50	enocit of PIOLOGICAL MATER	
attached Examiner's comment regarding REQUIREMENT FO	OR THE DEPOSIT OF BIOLOGICA	L MATERIAL.
Attachment(s)		
 1⊠ Notice of References Cited (PTO-892) 3☐ Notice of Draftperson's Patent Drawing Review (PTO-94) 5☐ Information Disclosure Statements (PTO-1449), Paper N 7☐ Examiner's Comment Regarding Requirement for Depos of Biological Material 	8) 4∐ Interview S o 6⊠ Examiner's	oformal Patent Application (PTO-152) ummary (PTO-413), Paper No Amendment/Comment Statement of Reasons for Allowance
U.S. Patent and Trademark Office PTO-37 (Rev. 04-03)	Notice of Allowability	Port of Paper No. 0502

Notice of Allowability

Part of Paper No. 0503

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fce.

Authorization for this examiner's amendment was given in a telephone interview with John Fitzpatrick on May 7, 2003.

The application has been amended as follows:

on claim 1, line 6, after "for detecting" insert: --- a residual ---; on claim 5, line 5, after "for detecting" insert: --- a residual ---; and on claim 15, line 6, after "according to" insert: --- a residual ---.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance.

Kajiura et al. clearly teaches the construction of a voltage regulator of a vehicle AC generator including a rotor having a field coil and a plurality of magnetic poles and a stator having a stator core and an armature coil, said voltage regulator comprising:

a field voltage detecting circuit; and

a switch control circuit, connected to said field voltage detecting circuit, for controlling said switching circuit according to said field voltage; wherein:

said switch control circuit comprises a second means for turning on said switching circuit when one of the frequency and voltage of said field voltage becomes as high as a predetermined value; and

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said switch control circuit controls said switching circuit to regulate an output voltage of said AC generator when one of the frequency and voltage of said field voltage becomes as high as a predetermined value.

Inaba et al. teach the construction of a magneto-equipped power device having a switching circuit, connected to the field coil for the purpose of connecting a current feed circuit for a load current flowing through a load.

The prior art of record, taken alone or in combination, fails to teach the construction of a voltage regulator of a vehicle AC generator as described on independent claims 1, 5, and 15, having:

a field voltage detecting circuit for detecting a residual field voltage induced in said field coil when said field coil is not supplied with field current, (claims 1 and 5); or means for detecting rotation speed of said rotor according to a residual voltage induced in said field coil when said field coil is not supplied with field current.

Dependent claims 2-4, 6-14, and 16-19 are considered allowable by their respective dependence on allowed independent claims 1, 5, and 15.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (703) 308-4904. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramírez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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Pedro J. Cuevas May 7, 2003